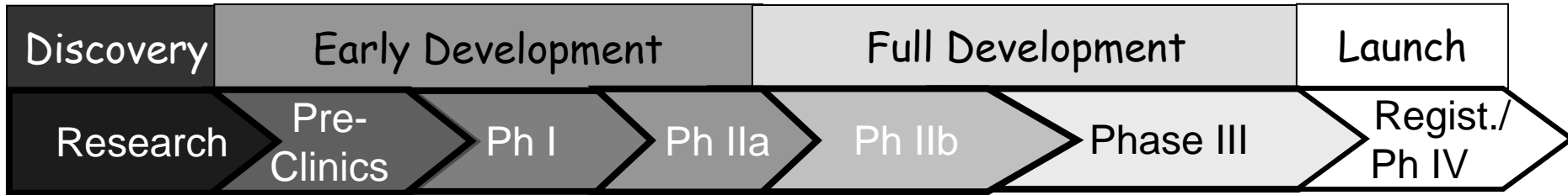


# MSc ETH in Medicinal and Industrial Pharmaceutical Sciences

## Illustration of the guiding principles



**Preclinical models**  
 PK/PD; Toxicity, ADME, Safety, Biocompatibility  
 Pharmacokinetic models, Bioanalytics, Biostatistics, Biomarkers

**Clinics** from proof of concept to registration studies - Pharmacovigilance

**Target definition, Drug selection, Preformulation**  
**Formulation and delivery strategies**  
**Upscaling and validation processes & strategies**  
**Pharmaceutical excipients, Packaging material**      **Registration strategies/-documentation**

**Quality Management, GMP, GXP, ISO, Infrastructure, Environment, Safety**

**Innovation - Intellectual property - Patents**      **Generics**

**Marketing strategies, Life-cycle management, Basics of finances and economics**

**Soft Skills:**      Project and interface management, Information management;  
 Social competences, Personality, Leadership, Communication  
 Glossary, Language, Cultural specificities, Ethics,